



Adapting to a Changing regional Climate

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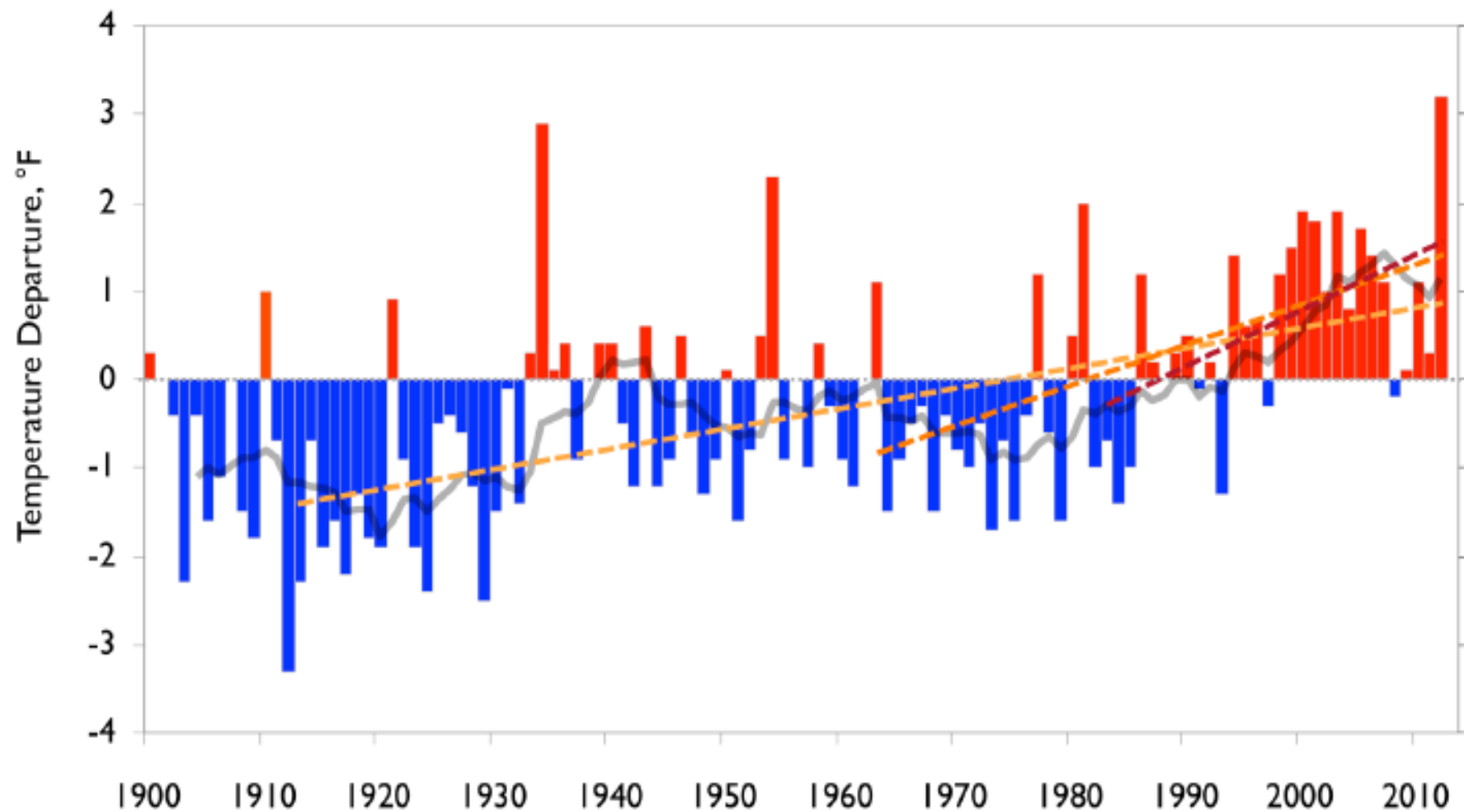
November 12, 2015



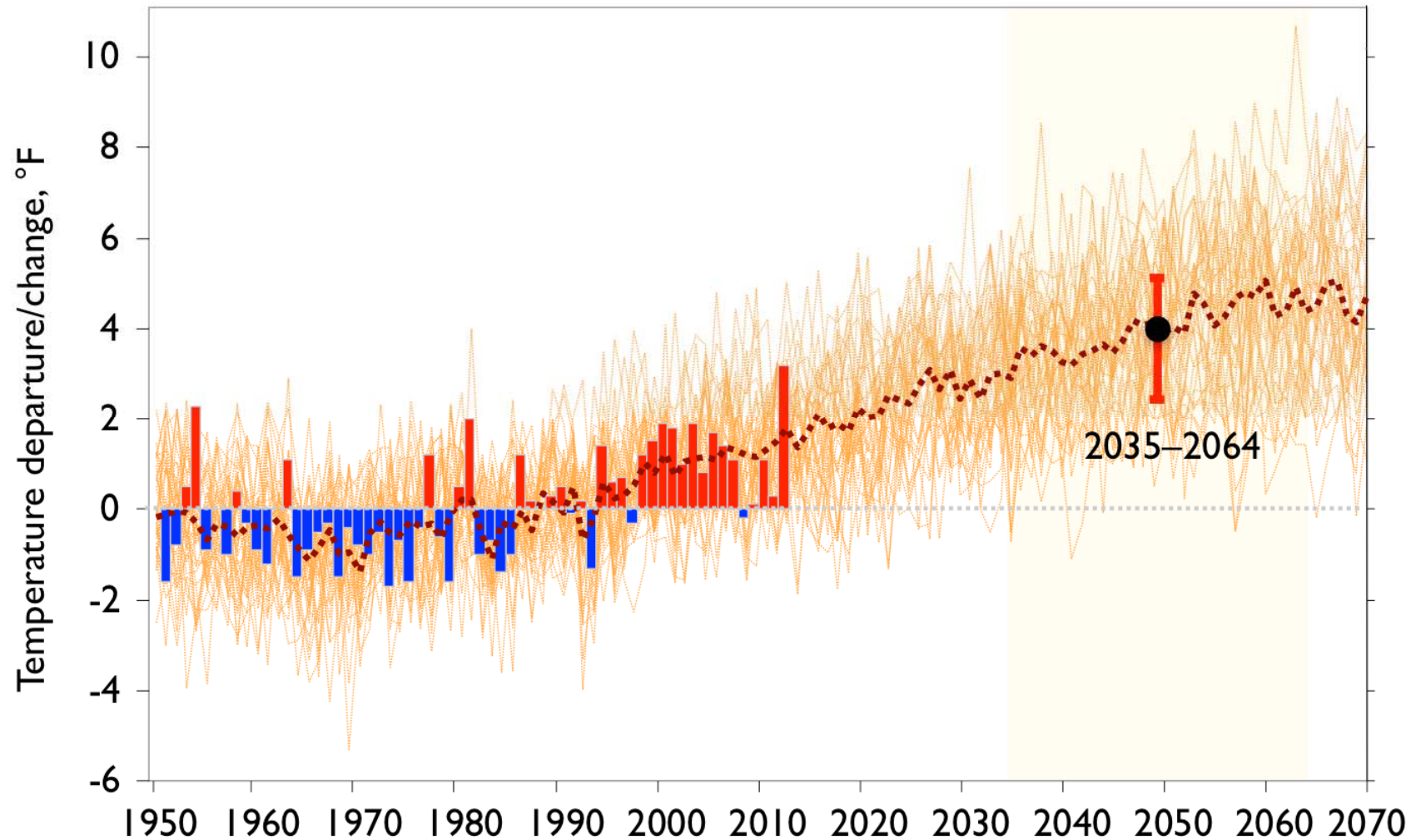
COLORADO

Department of Natural Resources

Colorado Statewide Annual Temperature, 1900–2012

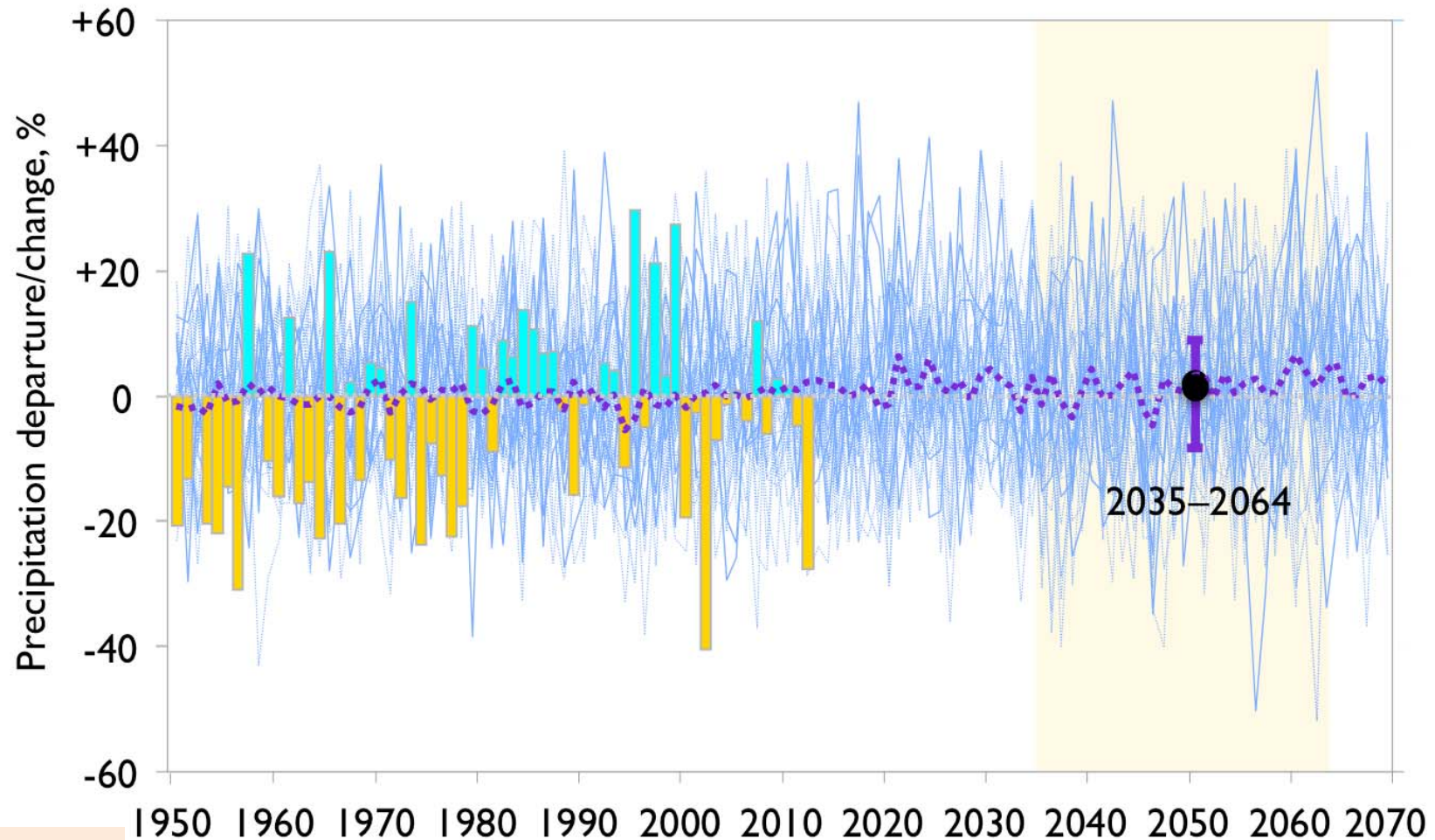


By 2050, typical year will be warmer than the warmest years of the past century



Projected Figure 5-2

Any future change in annual precipitation will be difficult to detect as such against the high variability



Projected

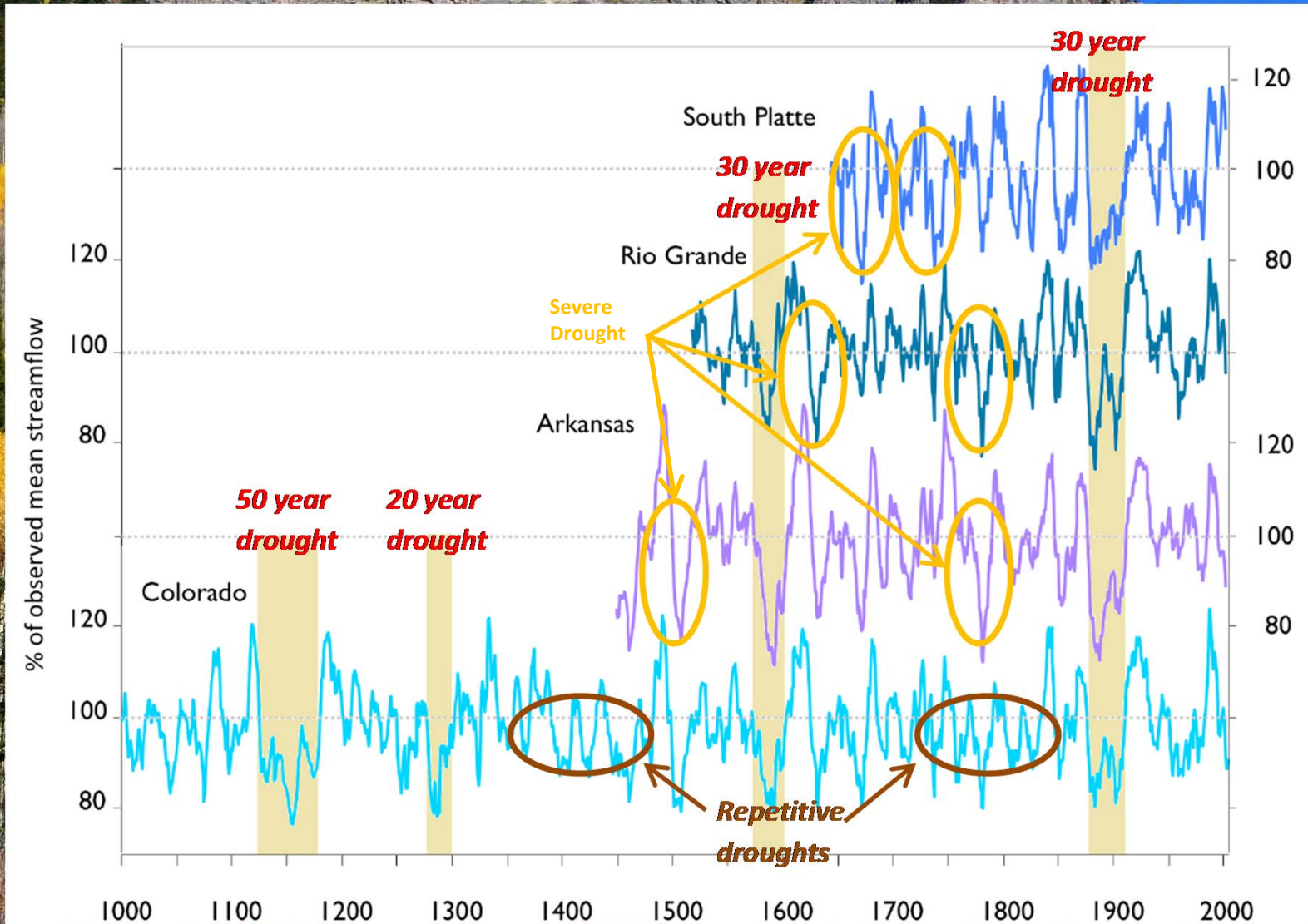
Figure 5-4

Summary - Projected climate and hydrology changes

Annual streamflow	decreases in majority of projections
Peak runoff timing	earlier in all projections
Crop water use	increases
April 1 snowpack	decreases in most projections
Palmer Drought Index	more drought
Heat waves	more frequent
Cold waves	less frequent
Frost-free season	longer
Wildfires	more frequent

Projected

Colorado has always had a variable climate



Role of Climate Variability in Long Term Water Planning

•Statewide Water Supply Initiative 2016 & The Colorado Water Plan

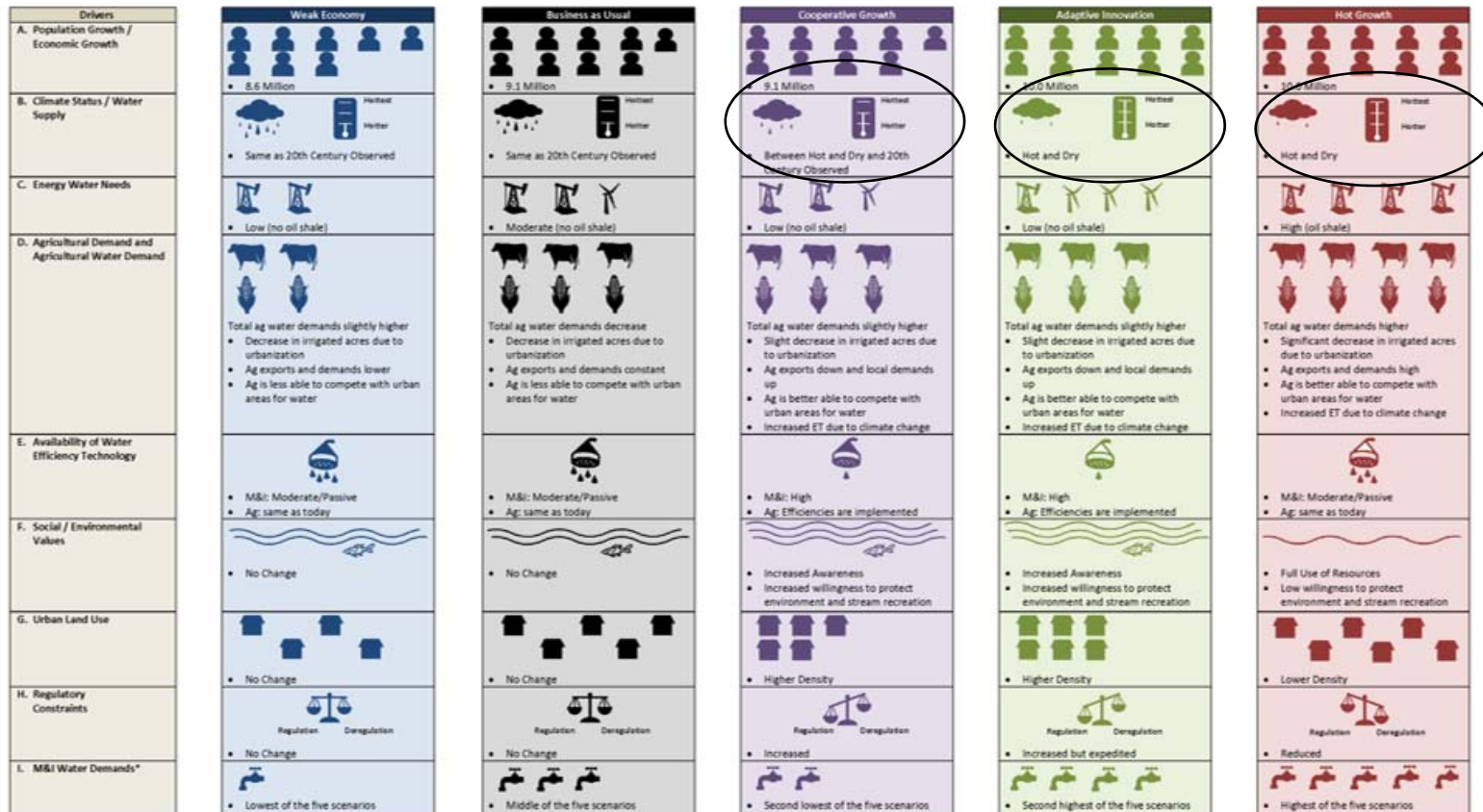


Figure 1. State of Colorado Future Water Supply Scenarios

Climate Change in Colorado

*A Synthesis to Support Water Resources
Management and Adaptation*

COLORADO CLIMATE CHANGE VULNERABILITY STUDY

A report submitted to the Colorado Energy Office

EDITORS



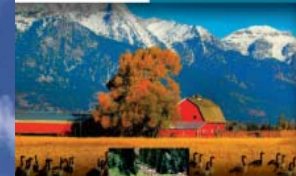
A Report for t

Western Water Assessment



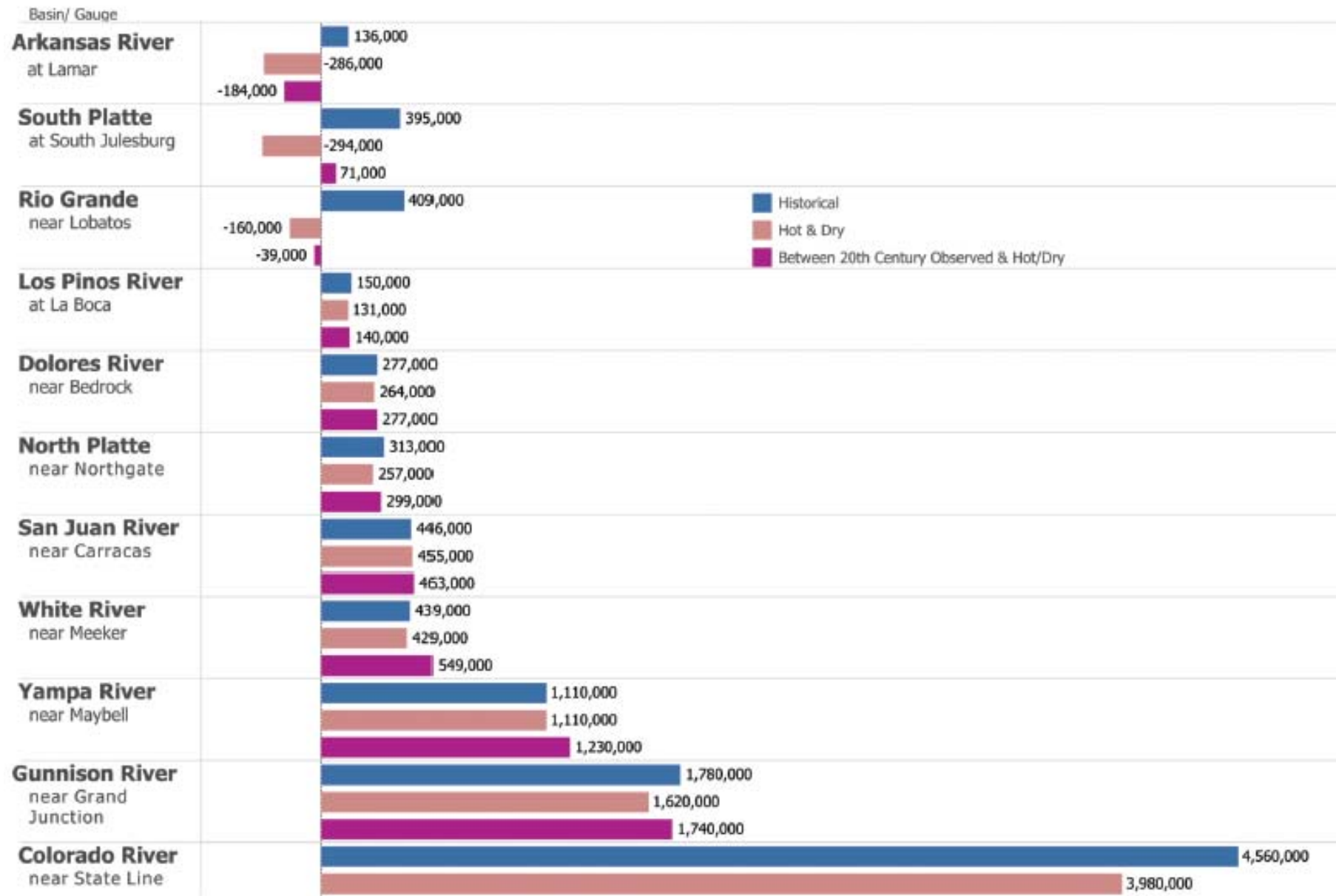
COLORADO CLIMATE PLAN

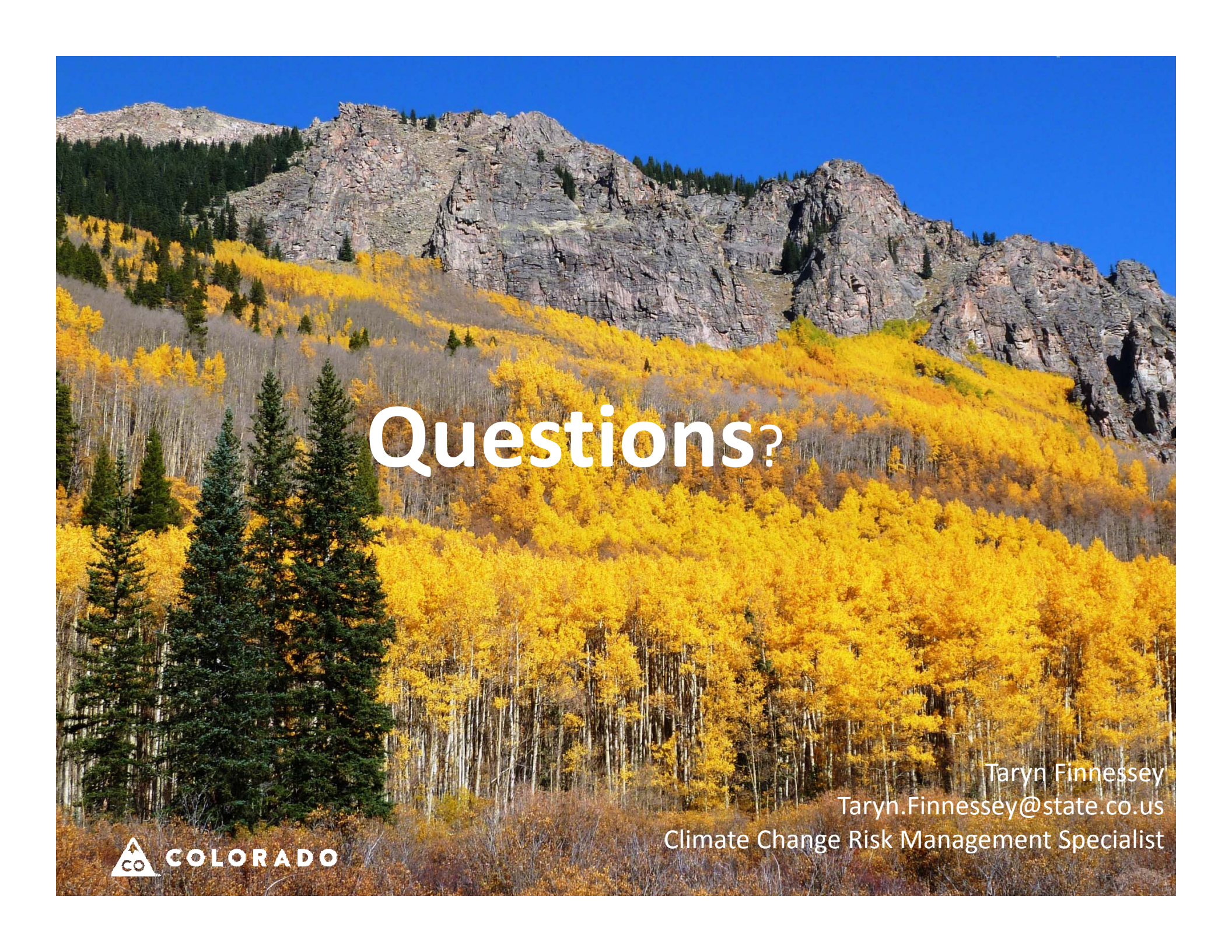
State Level Policies and Strategies to Mitigate and Adapt



EXECUTIVE SUMMARY | DECEMBER 2014

COLORADO'S WATER PLAN





Questions?

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